KOTKOV, I. I.

Tipovye planirovki proizvodstvenno-khoziaistvennykh brigadnykh dvorov i zhivotnovodche-skim ferm kolkhozov Standard plans for farm buildings and for livestock sections of collective farms. Kiev, Akad. arkhitekt. USSR, 1952. 114 p.

SO: Monthly List of Russian Accessions, Vol 6 No 6 September 1953

INOZEMTSEV, G.B.; KOTKO, M.N., red. [New methods of finishing bent furniture; based on the materials of an interplant shool] Novye metody otdelki gnutoi mebeli; po materialam mezhzavodskoi shkoly. Kiev, In-t tekhn. informatsii, 1964. 45 p. (MIRA 17:11)

KOTKO, M.N., red.

[Mechanization of finishing operations: from materials of factory training schools] Mekhanizatsiia otdelochnykh rabot; po materialam mezhzavodskoi shkoly. Kiev, 1963. 61 p. (MIRA 17:5)

1. Ukraine. Gosudarstvennyy komitet po koordinatsii nauchno-issledovatel'skikh rabot. Institut tekhnicheskoy informatsii.

KOTKO, I.K., kand.sel'skokhozyaystvennykh nauk Controlled alteration of heredity in dual-purpose and spring barley sown in summer and their transformation into winter crops.

Agrobiologiia no.1:34-38 Ja-7-6). (MIRA 16:5) 1. Zernogradskaya gosudarstvennaya selektsionnaya stantsiya. Rostovskaya oblast!. (Heredity) (Barley)

<u> APPROVED FOR RELFASE: 06/23/11: _CIA-RDP86-00513R000825300006-6</u> KOTKO, I.K., kand.sel'skokhozyaystvennykh nauk Change of heredity in winter barley when planted in spring. Agrobiologiia no.1:142-144 Ja-F 62. (MIRA 15:3) (MIRA 15:3) 1. Zernogradskaya gosudarstvennaya selektsionnaya stantsiya, g. Zernovoy, Rostovskaya oblast. (Barley) (Heredity)

KOTKO, I. K.

KOTKO, I. R. - "The development and productivity of perennial graces under irrigation in the southern Ukrainian SER". Odessa, 1955. All-Union Order of Labor Red Banner Selection and Genetics Instiment T. D. Lysenko. (Dissertation for the Degree of Candidate of Agricultural Science.)

SO: Knizhnaya Letopis', No. h3, 22 October 1985. Moscow

KOTKO, G.; KUDRYASHOV, N., inzh.; IVANOV, V., inzh.

Heading for the consolidation of automotive transportation units and the organization of centralized transportation. Avt.transp. 42 no.3:32-33 Mr '64. (MIRA 17:4)

1. Starshiy ekonomist Talasskoy avtobacy, Kirgizskaya SSR (for Kotko). 2. Avtokhozyaystvo No.16 Glavsrednevolzhskstroya (for Kudryashov). 3. TSentral'noye byuro tekhnicheskoy informatsii Nizhne-Volzhskogo soveta narodnogo khozyaystva (for Ivanov).

1-39033-66 EWT(m)/T/FNP(+)/ETI IJP(c) JD

SOURCE CODE: UR/0113/66/000/003/0036/0038

AUTHOR: Kotkis, M. A.

ORG: Gor'kiy Automobile Plant (Gor'kovskiy Avtozavod)

TITLE: Strengthening automobile springs by the method of deformation aging

SOURCE: Avtomobil'naya promyshlennost', no. 3, 1966, 36-38

TOPIC TAGS: metallurgic research, metal aging, thermal aging, spring, spring steel, plastic deformation, automotive industry, crystal lattice, crystal dislocation

ABSTRACT: The author describes a method worked out at the Gor'kiy Automobile Plant for producing springs. Normalized rolled stock is subjected to cold plastic deformation with a 30-60% reduction by rolling or drawing. This sets the final dimensions of the cross section without intermediate annealing. Band or wire produced in this manner is used for producing either leaf of spiral springs. These are then heated for 20-30 minutes at 280-300°C. This process ensures good mechanical properties and work capacity of these parts. Theoretical analysis of experimental data accumulated in testing S-65A and 65G steel spring products produced by this method shows that these products are strengthened by deformation aging. This is explained as follows. The concentration of crystal lattice dislocations is increased by cold plastic deformation. Carbon and nitrogen in the solid solution move toward these dislocations and block them-

Card 1/2

<u> UDC: 629.113:62-272.001.6</u>

KOTKIS, M.A. Introducing plastic thermal treatment of springs for the GAZ-51 motortruck. Biul. tekh. skon. inform. Gos. nauch. issl. inst. nauch. i tekh. inform. 18 no.7819-21 J1 '65. (MIRA 1889) <u> APPROVED FOR RELEASE: 06/23/11: _CIA-RDP86-00513R000825300006-6</u> KOTKIS, M.A. Effect of ultrasonic waves on the saturation with oil of porous ceramic metal bearings. Porosh. met. 4 no.6:96-97 N-D '64. (MIRA 1883) 1. Gor'kovskiy avtomobil'nyy zavod.

<u> APPROVED FOR RELFASE: 06/23/11: CIA-RDP86-00513R000825300006-6</u> KOTKIS, M.A. Experience in using an electron microscope at the Gorkiy Automobile Factory. Zav.lab. 28 no.1:119-120 '62. (MIRA 15:2) (Electron microscope)

26388 \$/032/61/027/008/011/020 B103/B206

Investigation of the ...

(1942); No. 9 (1948)). (1) Fracture surfaces of cyclic overload (number of cycles N <105); (2) premature fatigue failures (number of cycles $10^5 \langle N \langle 10^6 \rangle$; (3) fatigue failures (number of cycles $10^6 \langle N \langle (5 \div 10 \cdot 10^6) \rangle$). In the case of cyclic overloads, the rate of deformation of the metal is so high that no time remains for the separation of the metal along the gliding planes. In this case, the connections between them are destroyed in the form of imprints, with a characteristic, terrace-like fracture surface developing. In premature fatigue, metal fractures occur at lower tensions, and therefore lower rates of deformation than under cyclic overloads. This leads to partial cleavage and separation of the metal along the gliding planes. Consequently, characteristic "tongues" are formed. A complete cleavage of the metal along the gliding plane may occur in the range of fatigue failures due to even stronger reduction of the deformation rate. Gliding traces are then revealed on the fracture surfaces, or a system of intersecting lines, giving the structure a mosaic-like appearance; this structure develops due to plastic deformation of the metal. The methods proposed by the authors permit a determination of the range of tension where a fatigue failure occurs. There are 1 figure and 1 Soviet-bloc reference. [Abstracter's note: Essentially Card 2/3

18.9100 (2808)

\$/032/61/027/008/011/020 B103/B206

AUTHORS:

Kotkis, M. A., Sveshnikov, D. A., and Afanas yeva, V. K.

TITLE:

Investigation of the surface of fatigue failures by

electron microscope

PERIODICAL: Zavodskaya laboratoriya, v. 27. no. 8, 1961, 992

TEXT: The authors studied the surface structure of fatigue failures of brand-45 steel (C = 0.49%, Si = 0.17%, Mn = 0.77%, S = 0.035%, P = 0.025%) under the electron microscope. The steel was in its normal state (θ_B = 67 kg/mm², 6_S = 35.8 kg/mm², δ = 22.4%, ψ = 45.3%). The specimens had a length of 450 mm and a diameter of 80 mm. They had a 2 mm deep annular kerf with a radius R = 4 mm. To produce replicas, rapon varnish (1% solution of celluloid in amyl acetate) was applied twice to the fracture surface close to the start of the fatigue destruction. The replicas were separated by means of gelatin and shaded by means of chromium. The microphotographs of the fracture surfaces were evaluated according to the classification by D. N. Vidman (Vestnik mashinostroyeniya, No. 2 - 4 Card 1/3

SYSUYEV, Yu.A.; KOTKIS, M.A.; AFANAS'YEVA, V.K.

Carbide transformations during the deformation and subsequent heating of plain carbon steels. Fiz. met. i metalloved. 12 no.4:513-518 0 '61. (MIRA 14:11)

1. Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut i Gor'kovskiy avtomobil'nyy zavod. (Steel-Metallography)

(Phase rule and equilibrium)

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6</u>

APAYEV, B.A.; KOTKIS, M.A.

Volume changes of the carbide phase in tempering. Izv.vys.ucheb.zav.;
fiz. no.1:150-158 '61. (MIRA 14:7)

1. Fiziko-tekhnicheskiy institut pri Gor'kovskom gosudarstvennom universitete imeni N.I.Lobachevskogo.
(Steel-Heat treatment) (Cementite)

Use of Small Magnifications in Connection With the SOV/32-25-5-35/56 Work With the Electron Microscope

austenite of the third phase showed that the latter is considerably less hard and obviously is a ferrite. There is 1 figure.

ASSOCIATION: Gor'kovskiy avtomobil'nyy zavod (Gor'kiy Automobile Plant)

Card 2/2

9 (7) AUTHOR:

Kotkis, M. A.

sov/32-25-5-35/56

TITLE:

Use of Small Magnifications in Connection With the Work With the Electron Microscope (Primeneniye malykh uvelicheniy pri rabote na elektronnom mikroskope)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, p 616 (USSR)

ABSTRACT:

In connection with the investigation of the microstructure of heat-resistant ohromium-nickel steels a three-phase structure was observed under the electron microscope EM-3, whereas only two phases were to be observed under the optical microscope. As a result, the sensitivity of these two microscopes was compared by magnifications of the order of magnitude 1000. Indentations with a diamond pyramid were made on the metal ground section by means of the device PMT-3 (loads 50.30 and 15 g) and examined under the metallographic microscope MIM-8 and the electron microscope. The photographs (Figs a,b) at the same magnification show that in the first case very indistinct images are obtained, whereas the electron microscope shows clearly three phases. The determination of the microhardness of ു തുടെ നെയുന്ന്

Card 1/2

KOTKIS M.A.

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Kotkis, M.A.

32-8-35/61

AUTHOR TITLE

An Austenitometer with an Alternating Magnetic Field. (Austenitometr s peremennym magnitnym polem.)

PERIODICAL

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 8,

DD. 970-973 (USSR)

ABSTRACT

A magnetic method is recommended here for the examination of final austenite in tempered and sharpened sharp-outting steel. The magnetic saturation in the entire volume is evaluated according to the degree (number) of ferromagnetic phases in the entire volume, i.e. according to magnetic induction. The chief disadvantage of almost all austenitometers is the necessity of a special graduation according to the form of the production object. The paper proposes a new construction of an austenitometer which removes this dependence on the form of the object. The chief principle of this construction is that the continuous magnetic field is replaced by an alternating field. Therefore this apparatus is called alternating-current austenitometer. It consists of: a switching contrivance and push-button keys, a solenoid, a brass coil, an indicator coil, a transformer, two potentiometers, two

CARD 1/2

CARD 2/2

CIA-RDP86-00513R000825300006-6

AUTHOR TITLE

Kotkis M.A.,

32-7-18/49 The Induction Method for the Determination of the Depth of the

Hardening Layer.

(Induktsionnyy metod opredeleniya glubiny zakalennogo sloyg.Russian)

PERIODICAL

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 7, pp 819-821 (U.S.S.R.)

ABSTRACT

This method is based upon determination of the value where $\Delta_{x}=B_{c}-B_{x}$ -difference between the induction of the not hardened preparation (Be) and the hardened preparation with the unknown degree of hardeness δ_B (Be) and $\Delta e = B_C - B_B$ -difference of the inductions of the not hardened preparation (Be) and the

hardened standard preparation of the known degree of hardness $\delta_{e}(B_{e})$; As $\beta = \frac{\delta_{x}}{\epsilon}$ are approximately equal, it is possible to set up a corresponding table for B' and B as well as to determine a diis measured by a deviagram for the ratio 3 = f(H). The ratio Δx

ce consisting of four induction coils. Ae The object of theinvestigation was steel of the type 45f(H) = 0,94-0,95. There are 3 tables and 3 figures.

ASSOCIATION Gor'kiy Automobile Factory im. V.M.Molotov.

(Gor'kovskiy avtomobil'nyy zavod imeni V.M.Molotova). Library of Congress.

AVAILABLE

Card 1/1

SANDLER, N.I.; LEVIKOV, Ye.A.; KOTKIS, M.A.

Hiffect of arsenic admixtures on the acidity of steel and iren.

Fiz.met.i metalleved. 1 no.3:523-528 *55. (MLRA 9:6)

1.Ukrainskiy nauchno-issledovatel skiy institut metallov.

(Iren-arsenic alloys)

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6</u> KOTKINA, S.I. Health education in the Chinese People's Republic; based on data from the Chinese journal "On hygiene." Gig. i san. 24 no.10:65-67 159. (MIRA 13:1) (HEALTH EDUCATION) (PERIODICALS)

KOTKINA, M.G., insh. Increasing the leading capacity of gear transmissions.

Mashinostroenie no.3:11-13 My Je '65. (MIRA 18:6) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6 KOTKIN, V.S. All-Union meeting of medical library personnel. Sow. zdrav. 19 no.11:87-89 '60. (MIRA 13:11) (MEDICAL LIBRARIES)

SILIN, V.P.; KOTKIN, G.L. Absorption of ultrasonic waves in superconductors. Fiz. met. i metalloved. 14 no.3:456-457 S '62. (MIRA 15: (MIRA 15:9) 1. Fizicheskiy institut imeni P.N.Lebedeva AN SSSR. (Superconductivity) (Ultrasonic waves)

On the absorption of ultrasonics ...

S/126/62/014/003/015/022 E073/E420

zones are of great interest from the point of view elucidating the roles of the electromagnetic field and of the deformation potential in the absorption of sound. The full expressions for the dielectric constant $\epsilon(\omega,k)$ and the coefficient of absorption γ are given for all the above cases.

ASSOCIATION: FIAN

SUBMITTED: April 28, 1962

Card 2/2

41582

S/126/62/014/003/015/022 E073/E420

24,2120 24.1800

AUTHORS:

Silin, V.P., Kotkin, G.L. On the absorption of ultrasonics in superconductors

PERIODICAL: Fizika metallov i metallovedeniye, v.14, no.3, 1962, 456-457

During the propagation of ultrasonics in metals electromagnetic fields may be generated which have a significant influence on the absorption of ultrasonics. A consideration of TEXT: the absorption of transverse ultrasonic waves in superconductors leads to the two cases of particular interest. differs appreciably from that for the normal metal if A > xT/10. Secondly in the "Pippard" zone there are two cases of interest: (a) when $h\omega \ll \Delta \ll xt \ll hkv$ the absorption is considerably lower than in a normal metal if $\Delta^2 > h\omega xT$; (b) when $h_w \ll xt \ll \Delta \ll hkv$ the absorption coefficient is considerably smaller than the corresponding coefficient due to the deformation Experimental measurements of the parameters in these potential. Card 1/2

S/056/61/041/001/020/021 B102/B231 Theory of ultrasonic .. $H > ck(m*\vec{v}_H)_{max}\cos \theta/e$. In strong fields $(\Omega \gg kv)$ the following is valid: $(A, B) = (1 + \zeta_{AB}) 2\pi^{8} (2\pi\hbar)^{-8} \int m^{8} dp_{H} \delta (k\tilde{\mathbf{v}}) \widetilde{A} \widetilde{B} 1 - (1 - \zeta_{AB}) 2\pi (2\pi\hbar)^{-8} iP \int m^* d\rho_H \frac{\overline{AB}}{k\overline{\nu}} +$ $+(1,-\zeta_{AB})(2\pi\hbar)^{-3}i\int m^{2}d\rho_{H}\Omega^{-1}\int_{0}^{2\pi}d\varphi\int_{0}^{2\pi}d\varphi_{1}\times$ $\times A (\varphi) B (\varphi_1) \left[\delta (k\widetilde{v}) \int_{0}^{\infty} kv (\varphi') d\varphi' - \sigma (\varphi - \varphi')/2 \right] + O ((kv/\Omega)^2),$ 50 {-1 if x is less than 0
} 1 if x is greater than 0* The author thanks V. P. Silin for his assistance. V. A. Gurevich is mentioned. There are 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The three references to English-55 language publications read as follows: A. B. Pippard. Phil. Mag. 2, 1147, 1957; Proc. Roy. Soc., A257, 165, 1960; T. Kjeldaas. Phys. Rev., 113, 1959. Card 6/7 60

26125 S/056/61/041/001/020/021 B102/B231

Theory of ultrasonic ...

where p_{Hn} is defined by the condition $k\overline{v}(p_{Hn}) + n\Omega(p_{Hn}) = 0$. If $\int_{AB} = 1$, (A, B) will be real; however, if $\int_{AB} = -1$, (A, B) will be imaginary. In the following, the author studies the propagation of sound along the axis of symmetry in a longitudinal magnetic field, including the case where k and k are positioned in the symmetry plane of the Fermi surface. It is shown that in this case the sound absorption coefficient approaches zero in the approximation under consideration if the field exceeds a certain value at which $k = ck(m^*\overline{v}_k)_{max} \cos \theta/e$. k is assumed to be the axis of symmetry of the Fermi surface of s-th order; the symmetry axis of the crystal, and also the direction of sound propagation. If $k \gg 0$ ()—thickness of the skin layer in dase of an anomalous skin effect), then, if $k \gg 1$, where $k \ll 1$ = $ck(m^*\overline{v}_k)_{max}/e$, a rotation of the polarization plane of sound through the angle $k \ll 1$ = $k \gg 1$ and approximately equal to $k \gg 1$ which agrees with the value obtained by $k \gg 1$ and approaches zero if $k \gg 1$ and approaches zero if $k \gg 1$

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6

S/056/61/041/001/020/021 B102/B231 Theory of ultrasonic ... Formulating $\lambda_{\mathrm{imjl}}(\omega, \hat{k})$ in the way suggested by Silin, one obtains $p\omega^2 u_i = k_i k_m \lambda_{im[i} u_i;$ $\lambda_{imjl}k_mk_l = \lambda_{imjl}^{(0)}k_mk_l + \delta\lambda_{imjl}k_mk_l,$ $\delta \lambda_{lmll} k_m k_l u_l = e N E_l - i e c^{-1} N \omega H_m u_l e_{llm} - i k_m \int \Lambda_{lm} \delta f \, dp.$ $\delta \lambda_{lmjl} k_m k_l = -k_m k_l \langle \Lambda_{lm} \Lambda_{jl} \rangle - k_m k_l \langle 1 \rangle^{-1} (\langle \Lambda_{lm} \rangle - N \delta_{lm}) (\langle \Lambda_{jl} \rangle - N \delta_{jl}) +$ $+ lec^{-1}N\omega H_m e_{i/m} - i\omega (L_i, L_j) - i\omega e^2(N - i(L_i, v_a)), \overline{B}_{\alpha\beta}^{-1}(N\delta_{\beta\beta} - i(v_{\beta}, L_j)).$ (A, B) is given by $(A, B) = \frac{2\pi^{8}}{(2\pi\hbar)^{8}} m^{8} \Omega^{-1} \sum_{|n| < (\hbar \nu/\Omega)_{max}} \left[(A_{n}^{*}B_{n} + \zeta_{AB}A_{n}B_{n}^{*}) \left| \frac{\partial}{\partial \rho_{H}} \frac{\widehat{\kappa \nu}}{\Omega} \right|^{-1} \right]_{\rho_{Hn}} - \frac{2\pi i}{(2\pi i\hbar)^{8}} P \int m^{*} d\rho_{H}^{*} \Omega^{-1} \sum_{n=-\infty}^{\infty} \frac{A_{n}^{*}B_{n} - \zeta_{AB}A_{n}B_{n}^{*}}{\widehat{\kappa \nu}/\Omega + n},$ Card 4/7

Theory of ultrasonic ..

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if kycos0 is much greater than ν , where ν denotes the collision frequency of electrons, and 0 the angle between \hat{k} and \hat{H} . In addition, the defining equations

$$-\int d\mathbf{p} A \partial f_0 / \partial \mathbf{e} = \langle A \rangle,$$

$$(2\pi)^{-1} \int_0^{2\pi} A(\phi) d\phi = \overline{A},$$

$$A O^{-1} \int_0^{\Phi+2\pi} d\mathbf{p} \, P(\phi) \exp(i\theta) \int_0^{\Phi_0} d\phi \, d\phi = \overline{A},$$

$$\left\langle \frac{A\Omega^{-1} \int_{\varphi}^{\varphi+2\pi} d\varphi_{1}B(\varphi_{1})\exp(ik\int_{\varphi}^{\varphi_{1}} v(\varphi')d\varphi'/\Omega)}{\exp 2\pi i k\widetilde{V}/\Omega - 1} \right\rangle = (A, B).$$
 (1.8)

are introduced. The lattice vibrations are given by

$$\beta^{ij}_{i} = \lambda^{(o)}_{imjl} \frac{\partial u_{j}}{\partial x_{m} \partial x_{l}} - eNE_{i} - i \frac{e}{c} N\omega [uH]_{i} + \frac{\partial}{\partial x_{m}} \Lambda_{im} f d\bar{p}$$
. N stands for the number of electrons per unit volume, β for the density of matter, and $\lambda^{(o)}_{imjl}$ for the tensor of the moduli of elasticity of the lattice. Card $3/7$

Theory of ultrasonic ... $E = \mathcal{E}_0 + \Lambda_{1k} \partial u_1 / \partial x_k; \text{ the electron-distribution function is taken as}$ $\frac{\partial f}{\partial t} + v \frac{\partial f}{\partial t} + \left(eE + \frac{e}{c} \left[vH\right] - \frac{\partial}{\partial t} \Lambda_{th} \frac{\partial u_1}{\partial x_k}\right) \frac{\partial f}{\partial \phi} = 0. \tag{1.1}.$ $u \sim \exp i(\vec{k}\vec{r} - \omega t). \text{ Applying the variables introduced by I. M. Lifshits, M. Ya. Azbel', and M. I. Kaganov (ZhETF, 31, 63, 1956), the following is obtained for the addition f to the equilibrium-distribution function, taking into account that df is periodic (period <math>\phi$): $\delta f = (iu_1k_m\Lambda_{\ell m} + iek^{-2}kE)\partial f_0 / \partial e - \frac{e^{+2\pi}}{2}\int_0^{\pi} d\phi_1 [eE_av_{\alpha}(\phi_1)\partial f_0 / \partial e - i\omega \partial f(\phi_1)] \exp(ik\int_0^{\pi} v(\phi')d\phi'/\Omega)$ (1.3). $\exp ik\int_0^{\pi} v(\phi)d\phi/\Omega - i$ v_{α} is the velocity component perpendicular to k. This formula is applicable

Card 2/7

247400 (1160, 1144, 1395, 1482)

S/056/61/041/001/020/021 B102/B231

AUTHOR:

Kotkin, G. L.

TITLE:

Theory of ultrasonic absorption by metals in a magnetic field

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 41, no. 1(7), 1961, 281 - 287

TEXT: It is known that investigations of low-temperatures ultrasonic absorption permit to draw various conclusions as to the Fermi surface. If $1\gg\lambda$ (1 - mean free path of electrons, λ - shock-wave length), there is no interrelation between the energy transfer from the lattice to the electrons and the electron collisions. The theory of sound absorption with regard to this case (H = 0) has been developed by V. P. Silin (ZhETF, 38, 797, 1960). In the present work, the complex modulus of elasticity is computed for the case $1\gg\lambda$, the case of an infinite 1 being considered as computed for the case $1\gg\lambda$, the case of an infinite 1 being considered as well. It is moreover assumed that a magnetic field exists, and that the Fermi surface is closed. At first, a few formulas are derived, which are fermi surface is closed. At first, a few formulas are derived, which are fermi surface is closed. At first, a few formulas are derived, which are energy with a lattice deformation (u displacement vector) is assumed to be energy with a lattice deformation (u displacement vector) is assumed to

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30

25

On the Absorption of Ultrasonics in Metals

sov/56-36-3-55/71

an ansatz is made for the equation of motion and the electromagnetic field equations, and a solution is derived. Finally, the special case of a polarized sonic field that is parallel to H is investigated, as well as the case of a vertically polarized sonic field. From the derived formulae it follows that $\gamma(H)$ has a number of maxima. The author finally thanks V. P. Silin for supervising work. There are 6 references.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State Uni-

versity)

SUBMITTED:

November 22, 1958

Card 2/2

24(1) AUTHOR:

Kotkin, G. L.

TITLE:

On the Absorption of Ultrasonics in Metals (O pogloshchenii

SOV/56-36-3-55/71

ul'trazvuka v metallakh)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 941 - 942 (USSR)

ABSTRACT:

The absorption of ultrasonics in metals at low temperatures is the consequence of an electron-lattice interaction. In the present paper ("Letter to the Editor") the author theoretically investigates the absorption of transverse sound by metals in a transverse magnetic field. In the introduction several papers by western authors are discussed in short. The author considers the motion of lattice atoms as given and the electrons as free; he investigates the case in which

 $1 \ge \lambda$, $R \sim \lambda$. (λ -wave length of sound, 1 - free path, R= mvc/eH - radius of electron orbit). In this case equilibrium occurs in the case of the same distribution of f electrons as without a sonic field. For an electron distribution $f = f_0 - \chi (\partial f_0 / \partial \epsilon)$ and the electric field \vec{E}

Card 1/2

ACCESSION NR: AP4001834

the amplifier track, which is considered to be a function of imput impedance, input capacity, noise level, and amplifying coefficient of the amplifier. The latter is set at a limit of 4 to 8 x 10°. Finally, the monitor includes a zero shift stabilizer with better than 10% accuracy and dead time limit of 200 to 1000 μ sec and a recorder of type STA-2M or ITA-57. Orig. art. has: 3 figures.

ASSOCIATION: Polyarny*y geofizicheskiy institut, Kol'skogo filiala AN SSSR (Institute of Polar Geophysics Kola Department AN SSSR)

SUBMITTED: 22Feb63

DATE ACQ: 17Dec63

ENCL: 00

SUB CODE: AS

NO REF SOV: 005

OTHER: OOL

Card 2/2

ACCESSION NR: AP4001834

s/0203/63/003/006/1108/1111

AUTHORS: Kapustin, I. N.; Kotkin, B. A.; Smirnov, V. S. Frantsuz, E. T.

TITLE: Some considerations of the design and plan of a neutron monitor

SOURCE: Geomagnetizm i aeronomiya, v. 3, no. 6, 1963, 1108-1114

TOPIC TAGS: neutron monitor, cosmic ray nucleon component, cosmic ray intensity variation, neutron monitor construction, nuclear physics, neutron counter, neutron monitor parameters, neutron detector, cosmic ray neutron, neutron energy spectrum, gas stabilitron, neutron monitor voltage standard, cosmic ray intensity, cosmic ray counter, cosmic radiation, nuclear particle

ABSTRACT: The basic parameters for a neutron monitor for measuring cosmic rays have been discussed and their individual accuracies evaluated. These entail first the change in the sensitivity of the detector defined by $A = \sum_{k} M_k a_k$, where a_k counter sensitivity in the k-th pocket cross section, M_k - sensitivity of this pocket relative to cosmic rays, given within an accuracy of 1%. Second, a voltage regulator suitable for 2000-volt applications for which a gaseous stabilizer is considered with an accuracy of 0.05%. Thirdly, the transmission coefficient of

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6 FOMENKO, T.G.; POGARTSEVA, Ye.M.; KOTKIN, A.M.; BUTOVETSKIY, V.S. Selecting the systems for the pulification of contaminated water. Koks i khim. no.7:17-22 165. (MIRA 18:8) 1. Ukrainskiy proyektno-konstruktorskiy i nauchno-issledovatel skiy institut po obogashcheniyu i briketirovaniyu ugley.

KOTKIN, A.M., kand. tekhn. nauk Concerning the book "Increasing the supply of coking coal."
Ugol' Ukr. 7 no.7854-55 Jl '63. (MIRA 16:8) (Coke industry)

KOTKIN, A.M.; ROZHNOVA, Ye.Ye. Flotation of slurry coagulated with polyacrylamides. Koks i khim. no.12:3-7 '62. (MIRA 16:1 (MIRA 16:1) 1. Ukrainskiy proyektno-konstruktorskiy i nauchno-issledovatel'-skiy institut po obogashcheniyu i briketirovaniyu ugley. (Donets Basin-Flotation) (Acrylamides) KOTKIN, A.M., kand.tekhn.nauk; SAMYLIN, N.A. Systems of payment for the quality of concentrates and industrial products. Koks i khim. no.10:51-55 '62. (MIRA 16:9) 1. Ukrainskiy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut po obogashcheniyu i briketirovaniyu ugley.
(Coal preparation plants) (Coal—Prices)

SHPAKHLER, A.G.; KORCHAGIN, L.V.; LEVIN, S.T.; BIAGOV, I.S.; KOTKIN, A.M.; SOLOV'YEV, A.V.

Briquetting coal and anthracite breezes in a cold state. Ugol'. prom. no.6:34-36 N-D '62. (MIRA 16:2)

1. Dnepropetrovskiy gornyy institut (for Shpakhler, Korchagin, Levin).
2. Ukrainskiy proyektno-konstruktorskiy i nauchno-issledovatel skiy institut po obogashcheniyu i briketirovaniyu ugley (for Blagov, Kotkin, Solov'yev).

(Briquets (Fuel))

SHPAKHIER, A.G.; AKSEL'ROD, E.I.; KOTKIN, A.M.; SOLOV'YEV, A.V.; ZEL'DIN, B.B.

Improving the manufacture technology in coal briquet plants.

Ugol' Ukr. 6 no.2:17.19 F '62. (MIRA 15:2)

1. Dnepropetrovskiy gornyy institut (for Shpakhler, Aksel'rod).

2. UkrNIIUgleobogashcheniye (for Kotkin, Solov'yev). 3.

Donetskgiproshakht (for Mel'din).

(Briquets (Fuel))

FOMENKO, Timofey Grigor'yevich; BLAGOV, Igor' Sil'vestrovich; KOTKIN,
Aleksandr Matveyevich; KUNIK, V.P., red.izd-va; LOMILINA, L.N., tekhn. red. [Slime flocculation] Flokuliatsiia shlamov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1962. 109 p. (MIRA 15:3) (Flotation)

KOTKIN, A. M., Cand. Techl Sci. (diss) "Investigation of Operating Environment of Coal-Enriching Plants," Khar'kov, 1961, 27 pp.

(Khar'kov Mining Inst.) 200 copies (KL Supp 12-61, 268).

<u> APPROVED FOR RELEASE: 06/23/11: _CIA-RDP86-00513R000825300006-6</u>

ARONOV, Samuil Grigor'yevich; BAUTIN, Ivan Grigor'yevich; VOLKOVA, Zoya
Andreyevna; VOLOSHIN, Arkhip Il'ich; VIROZUB, Yevgeniy Vladimirovich;
GABAY, Lev Izrailevich, DIDENKO, Viktor Yefimevich; ZASHKVARA, Vasiliy Grigor'yevich; IVANOV, Pavel Aleksandrovich, KUSTOV, Boris
Iosifovich [deceased]; KOTOV, Ivan Konstantinovich; KOTKIN, Aleksandr
Matvevevich; KOMANOVSKIY, Maksim Semenovich; LEYTES, Viktor Abramovich,
MOROZ, Mikhail Yakovlevich; NIKOLAYEV, Dmitriy Dmitriyevich. OBUKHOVSKIY Yakov Mironovich; RODSHTEYN, Pavel Moiseyevich; SAPOZHNIKOV,
Yakov Yudovich, SENICHENKO, Sergey Yefimovich; TOPORKOV, Vasiliy
Yakovlevich; CHERMNYKH Mikhail Sergeyevich; CHERKASSKAYA, Esfir'
Ionovna, SHVARTS, Semen Aronovich; SHERMAN, Mikhail Yakovlevich;
SHVARTS, Grigoriy Aleksandrovich; LIBERMAN, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Producing blast furnace coke of uniform quality; a collection of articles for the disemmination of advanced practices] Poluchenie domennogo koksa postoiannogo kachestva; sbornik statei po obmenu peredovym opytom. Kharikov. Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 300 p. (MLRA 9:8) (Coke industry)

KOTKIN, A.M.

VODNEY, G.G.; SHELKOV, A.K.; DIDENKO, V.Ye.; FILIPPOV, B.S.; TSAREV, M.N.;

ZASHVARA, V.G.; LITVINENKO, M.S.; MEDVEDEV, K.P.; MOLODTSOV, I.G.;

LGALOV, K.I.; RUBIN, P.G.; SAPOZHNIKOV, L.M.; TYUTYUNNIKOV, G.N.;

DMITRIYEV, M.M.; LEYTES, V.A.; LERNER, B.Z.; MEDVEDEV, S.M.; REVYAKIN,

A.A.; TAYCHER, M.M.; TSOGLIN, M.E.; DVORIN, S.S.; RAK, A.I.; OBUKHOV.—

SKIY, Ya.M.; KOTKIN.A.M.; ARONOV, S.G.; VOLOSHIN, A.I.; VIROZUB, Ye.V.;

SHVARTS, S.A.; GINSBURG, Ya.Ye.; KOLYANDR, L.Ya.; BELETSKAYA, A.F.;

KUSHNEREVICH, N.R.; BRODOVICH, A.I.; NOSALEVICH, I.M.; SHTROMBERG, B.I.;

MIROSHNICHENKO, A.M.; KOPELIOVICH, V.M.; TOPORKOV, V.Ya.; AFONIN, K.B.;

GOFTMAN, M.V.; SEMENENKO, D.P.; IVANOV, Ye.B.; PEYSAKHZON, I.B.;

KULAKOV, N.K.; IZRAELIT, E.M.; KVASHA, A.S.; KAFTAN, S.I.; CHERMNYKH,

M.S.; SHAPIRO, A.I.; KHALABUZAR, G.S.; SEKT, P.Ye.; GABAY, L.I.;

SMUL, SON, A.S.

Boris Iosifovich Kustov; obituary. Koks i khim. no.2:64 *55.(MLRA 9:3) (Kustov, Boris Iosifovich, 1910-1955)

KOTKIN, A.M.; OBUKHOVSKIY, Ya.M.; LEVITSKIY, Ya.B., redaktor; RYKOV, N.A., redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor [Standardizing the quality of coal for coking] Usrednenie kachestva uglei dlia koksovaniia. Moskva, Ugletekhizdat, 1955. (MLRA 8:10) (Coke) 78 p.

KOTKIN, A.M., inshener; OBUKHOVSKIY, Ya.M., glavnyy inshener kandidat tekhnicheskikh nauk. Preliminary sampling of coking coal. Standartizatsiia no.2:35-40 Mr-Ap '54. (NLRA 7:6) 1. Nachal'nik inspektsii "Yuzhinskoksugol'" (for Kotkin). (Coal--Analysis)

KOTKIN A.M.

KOTKIN, A.M.; OBUKHOVSKIY, Ya.M.; LAZAREV, N.N., redaktor; SHAROPIN, V.D., redaktor; PETROVA, N.S., tekhnicheskiy redaktor

[Coals for coking and control of their quality] Ugli dlia koksovaniia i kontrol' ikh kachestva. Moskva, Gos. nauchno-tekhn. isd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 228 p. (MLRA 7:9) (Coal) (Coke)

KOTKIN. A.M.; OBUKHOVSKIY, Ya.M.; SHVARTZ, S.A., redaktor; ANDREYEV, S.P., tekunioheskiy redaktor.

[Manual for inspectors of the quality of coal for coking] Pamiatka inspektora po kachestvu uglei dlia koksovaniia. Khar'kov, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954.

190 p.

(Goal) (Goke)

BLAGOV, I.S.: KOTKIN, A.M.; SHPAKHLER, A.G.; REL'DIN, B.E.

Briquetting of coal fines by using heavy coal-tar for binder. Ugol' 28 no.8:40-42 Ag '53. (NLRA 6:7)

1. Trest Ugleobogashcheniye (for Blagov). 2. Yuzhnaya inspektsiya Glavkoksa (for Kotkin). 3. Dnepropetrovskiy gornyy institut (for Shpakhler).

4. Mospinskiy briketnyy kombinat (for Zel'din). (Briquets (Fuel))

CIA-RDP86-00513R000825300006-6

APPROVED FOR RELEASE: 06/23/11:

SHMAGIN, Ya.G.; SIPOVSKIY, G.V.; KOTKAS, R.E. Water extraction of diatomic phenols from distillate fractions of shale tars. Khim. i tekh. gor. slan. i prod. ikh perer. no.ll: 236-245 '62. (MIRA 17:3 (MIRA 17:3) AAMISEPP, I.; EICHENBAUM, E.; HALLER, E.; KAARLI, K.; KIIK, H.;
KIVI, V.; KOTKAS, H.; KORJUS, H.; LEIVATEGIJA, L.; LIIV,J.;
LÄNTS, L.; MÄLKSCO, A.; PEDAJA, V.; POLNA, H.; RANDAUU, I.;
BUUGE, J.; SEKSEL, H.; TOOMRE, R.; TUPITS, H.; TUUL, S.;
TÕNISSON, H.; TÄÄGER, A.; VIIRAND, M.; VAHENÕMM, K.; ARAK,A.,
red.

[Plant breeding] Taimekasvatus. Tallinn, Eesti Ranmat, 1964.
813 p. [In Estonian] (MIRA 18:1)

Drilling method for making drainage ditches in oil shale mines and pits. Khim. i tekh. gor. slan. i prod. ikh perer. no.9:
52-68 '60. (MIRA 15:6)

(Estonia--Oil shales) (Mine drainage)

KOTKAS, E. M.

PA 7/49T83

WEER/Mining Machinery Mining Methods

Jul 48

"Special Mining Equipment and New Methods of Mining Age Necessary at the Baltic Shale Mines," E. M. Ketkas, Cand Tech Sci, 4 pp

"Bgol"" No 7 (268)

This ore is the most important in the USSR regarding production and processing of shale oil. Practically all haulage was done by men and horses in bourgeois Estonia. Leningradshaktoproyekt Trust introduced soal mine type mechanization systems. This, however is unsuitable for shale workings.

7/49103

BUCINA, Ivan; JASANOVSKY, Pavel; KOTKA, Ladislav; MARSAL, Jaroslav Determination of the absolute activity of some radioactive isotopes, suitable for neutron flux measurement. Jaderna energie 9 no.8:265 Ag '63. 1. Ustav pro vyakum, vyrobu a vyuziti radioizotopu, Fraha.

KOTJELNIKOV, Ksenija, dr.; TOMIC, Vlado, dr. Pathological contribution to otitis media. Med. arh. 17 no.6: 87-91 N.D 163. 1. Otorinolaringoloska klinika Medicinskog fakulteta u Sarajevu (Sefs Prof. dr Josip Gerc).

L 15641-66

ACC NRi AT5027917

in its content of Al₂O₃. Thus the purpose of the nodulization of powder lies not only in increasing its pour weight but also in reducing its additional oxidation during hot degassing or hot briquetting. From the standpoint of additional oxidation during heating, the presence of finer fractions in the nodulized powder is undesirable. The currently produced nodulized powder contains a large proportion of finer particles and briquetting of such powder in heated state or the high-temperature sintering of cold-pressed briquets will inevitably augment the nonuniformity of distribution of the oxide phase. Orig. art. has: 6 figures.

SUB CODE: 11, 13 / SURM DATE: none/ORIG REF: 009/ OTH REF: 003

BC.

-___ J/:

L 15641-66

ACC NR: A75027917

And the amount of Al metal fails to take into account the possible changes in the composition of the oxide phase due to the hydration of ${
m Al}_2{
m O}_3$ and the decomposition of hydrated crystals. Kotiyeva's method is basad on determining the content of Al metal by the customary gas-volumetric method and then titrating the solution with \mathbb{H}_2 SO $_4$ in order to determine the total amount of Al in the suspension. The difference between the total amount of Al and Al metal reveals the amount of Al bound in oxygen compounds. The amount of $A1_20_3$ is then determined by calculating the bound A1 in terms of $A1_20_3$. On this basis it is established that given the current conditions of the production and storage of Al powder, its oxide phase is represented by Al,O, 3H,O. In the SAP obtained by sintering and pressworking at 450°-500°C the oxide phase is represented by monohydrate of Al₂O₃ (Al₂O₃·H₂O). If the powder or SAP is heated above 550°C, its oxide phase does not contain chemically bound hydrated-crystal moisture (γ -Al $_2$ 0.). The formation of γ -Al $_2$ 0. is not, however, tentamount to the complete degassing of the material: y-Al203 is highly hygroscopic and can absorb moisture chemically, which accounts for the presence of considerable quantities of moisture in the residue. The vacuum heating of cold-pressed briquets at the rate of 50°C/hr results in the cassation of gas release only at 670-680°C. In view of the change in the composition (and hence also density) of the oxide phase during heating, the increase in its gravimatric content may be accompanied by a decrease in volumetric content. Further, prior heating in an oxidising simosphera for degassing purposes is allowable only in the car of properly modulised powder; heating of non-modulised powder leads to rapid increase

Card 2/3

L 15(41-66 ENT(1)/EMP(4)/ENT(4)/EMP(1

AUTHOR: Paisov, A. I. (Candidate of technical sciences); Kolpathnikov, A. I. (Doctor of technical sciences, Professor); Kotiveva. L. U. (Candidate of chemical sciences); Serbinovskaya, Ye. L. (Engineer); Shelamov, V. A. (Candidate of technical sciences)

ORG: Moscow Aviation Technology Institute (Moskovskiy aviatsionnyy tekhnologicheskiy institut)

TITLE: Transformations occurring in aluminum powder during its heating

SOURCE: Moscow, Aviatsionnyy tekhnologicheskiy institut. Trudy, no. 62, 1965. Obrabotka davleniyem legkikh splavov (Pressure working of light alloys), 30-37

TOPIC TAGS: aluminum powder, powder metal production, heating, aluminum oxide, phase composition, metal heat treatment

ABSTRACT: The investigation of the changes in the amount and composition of the oxide phase in heated Al powder is of great interest to the heating of this powder or to its briquetting in heated state, as well as to the heating of cold-pressed briquets to temperatures of 600°C and higher, performed for the purposes of degassing and sintering. The authors performed this investigation on the basis of a method proposed by L. U. Kotiyeva, since the conventional method of determining Al₂O₃ in Al powder and in sintered Al powder (SAP) according to the difference between the weight of sample

Card 1/3

UDC: 669.017:669.7.017.3

MCTITUE, 1.8., LAYNEE, A.1.; KOLENKOVA, M.A.

Bew method of preparing return solutions for the leaching of nepheline sinters. Izv. vys. ucheb. zav.; tsvet. mat. 8
no.3:58-64 '65. (MIRA 18:9)

1. Moskovskiv institut stali i splavov, kufedra radioaktivsykh metallov i kumpleksnoy pererabotki polimetallicheskogo syr'ya.

LAYNER, A.I.; KOLENKOVA, M.A.; KOTIYEVA, L.U.

Effect of the silicon module of the initial solution, the depth of decomposition and seeding, on the quality of the aluminum hydroxide during calcination. Izv. vys. ucheb. zav.; tsvet. met. 7 no. 42101-106 164 (MIRA 19:1)

1. Moskovskiy institut stali i splavov, kafedra radioaktivnykh metallov i kompleksnoy pererabotki polimetallicheskogo syr'ya.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6 LAYNER, A.I.; KOTIYEVA, L.U. Laboratory and pilot plant investigations on desiliconizing aluminate solutions at atmospheric pressure and with large amounts of white mud. TSvet. met. 36 no.8:57-62 Ag '63. (MIRA 16 (Aluminum-Metallurgy) (MIRA 16:9) LAYNER, A. I.; KOLENKOVA, M. A.; KOTIYEVA, L. U. White mud as an activating additive in the desiliconization of aluminate solutions. TSvet. met. 35 no.10:50-55 0 '62.

(MIRA 15:10) (Alumina) (Leaching)

LAYNER, A.I.; KOTIYEVA, L.U.

Effect of specific surface and the activity of white slime on the desiliconizing of aluminate solutions. Izv. vys. ucheb. zav.; tsvet. met. 5 no.6:71-76 '62. (MIRA 16:6)

l. Moskovskiy institut stali i splavov, kafedra metallurgii i fizicheskoy khimii tsvetnykh metallov.

(Aluminum—Metallurgy)

(Hydrometallurgy)

KOTIYEVA, L.U.; LAYNER, A.I. Obtaining aluminate solutions with a high ratio of silicon in autoclave desiliconizing. Izv. vys. ucheb. zav.; tsvet. met. 5 no.4:113-116 162. (MIRA 16:5) 1. Moskovskiy institut stali, kafedra metallurgii légkikh metallov. (Alumina) (Autoclaves)

Professor G. A. Sisoyan. On His 60-th Birthday

SOV/105-59-6-26/28

of an ore-annealing furnace. In 1954 he published a monograph on the burning of large arcs. At present he is engaged in studying the electromagnetic field distribution in ore annealing units, the theory of large-scale arcs and the control of arcs in furnaces. He also published a number of articles on problems of electrothermal processes in the periodicals "Stal!" and "Elektrichestvo". He has been awarded the "Medal of Distinction". There is 1 figure.

Card 2/2

8 (0)

AUTHORS: Gabashvili, N. V., Ter-Khachaturov, A. Ya., SOV/105-59-6-26/28

Kotiya, A. K., Svenchanskiy, A. D., Netushil, A. V.,

Filippov, K. M., Petnev, L. N. and Others

TITLE:

Professor G. A. Sisoyan (Professor G. A. Sisoyan)

On His 60-th Birthday (K 60-letiyu so dnya rozhdeniya)

PERIODICAL:

Elektrichestvo, 1959, Nr 6 p 94 (USSR)

ABSTRACT:

Grigoriy Artem'yevich Sisoyan began his scientific career at the Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Institute of Electrical Engineering). From 1932 he works as a scientist and as a teacher at the Chair of General and Theoretical Electrical Engineering at the Gruzinskiy politekhnicheskiy institut im. Kirova (Georgian Polytechnic Institute imeni Kirov). At the same time he works as an engineer at the Gruzenergo. From 1937 he devoted himself to electrothermal processes and theoretical electrical engineering. He solved a number of problems connected with the processes occurring in the electrical part of large ferro-alloy and carbide furnaces. In

1946 he was promoted Doctor of Technical Sciences. His

Card 1/2 Dissertation dealt with the electrical phenomena in the bath

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6

KOT A. K.

Kotia, A. K.- "Resonance curves in a star-connected three-phase symmetrical system, when the active resistance of one phase of the receiver is a wriable quantity," (In index: A. K. Kotiya), Trudy Energet. in-ta (Akad. nauk Gruz. SSR), Vol. IV, 1948, p. 151-55 (In Georgian, resume in Russian)

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

CIA-RDP86-00513R000825300006-6

ACC NR: AP7008868

SOURCE CODE: UR/0105/66/000/008/0095/0095

AUTHOR: Abelishvili, L. G.; Al'tgauzen, A. P.; Baycher, M. Yu.; Gabashvili, N. V.; Dididze, M. S.; Yefroymovich, Yu. Ye.; Kotiya, A. K.; Kupradze, G. D.; Kurdiani, I. S.; Netushil, A. V.; Nikol'skiy, L. Ye.; Razmadze, Sh. M.; Svenchanskiy, A. D.; Smelyanskiy, M. Ya.; Tkeshelashvili, G. K. TITLE: Professor Grigoriy Artemyevich Sisoyan (on his 70th birthday)

SOURCE: Elektrichestvo, no. 8, 1966, 95 TOPIC TAGS: electric engineering personnel, electric furnace, academic

parsonnel

ABSTRACT: G. A. Sisoyan graduated from the Moscow Power Engineering Institute in 1931. In 1932 he went to work at the Georgian Polytechnical Institute in the theoretical and general electrical engineering department. Sisoyan has worked and published many works in the area of electric furnaces. He has also worked in the area of investigation of electric spark action. He has published over 50 scientific works. He has also been active in university level teaching. Orig. art. has: 1 figure. [JPRS: 38,330]

UDC: 621.36

KOTIY, O.A. (Yaroslavl') G. Shteingaus! "sports problem". Mat v shkole no.3:90-92
My-Je 163. (MIRA 16:7) (Mathematics-Problems, exercises, etc.)

KOTIY, O.A. Construction and representation of algebraic space curves by means of two Gremona bundles of straight lines. Dokl. na nauch. konf. 1 no.3:89-93 '62. (MIRA 16:8) (Curves, Algebraic) (Cremona transformations)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6 KOTIY, Q.A. Use of birational transformations in congruences for the formation of space curves. Dokl. na nauch. konf. 1 no.3:85-88 '62. (MIRA 16:8) (Cremona transformations) (Curves, Algebraic)

ISAKOV, A.A. (Kemerovskaya oblast'); ZHURGARAYEV, Amangel'dy (Dzhambul'skaya obl., KazSSR); VLADIMIROV, A. (Asbest); FRIMAN, L.I. (Yaroslavl'); KILIMNIK, Ya.Ye. (Vinnitsa); TEREKHOV, I.A. (Skopin); AKDAULETOV, N.A. (pos.Mertuk. KazSSR); ZAKHARKIN, V.Ye. (pos.Rudtsev, Tul'skaya oblast'); SHESTOPAL, G.A. (Moskva); KOTIY, O.A. (Yaroslavl'); GAUKHMAN, V.A. (Moskva); LOPSHITS, A.M. (Yaroslavl'); SERGUSHOV, S.A. (Yaroslavl'); GOTMAN, E.G. (Pechora); VETROV, K.V. (Putintsevo, Vostochno-Kazakhstanskoy obl.); MIKHELEVICH, Sh.Kh. (Daugavpils); SKOPETS, Z.A. (Yaroslavl'); RYHRKOV, L.M. (Yaroslavl'); CHEGODAYEV, A.I. (Gavrilov-Yam)

Problems. Mat.v shkole no.6:85-92 N-D '62. (MIRA 16:1) (Mathematics--Problems, exercises, etc.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6 MOTIY, C.A. (Yaroslavi) Generalization of isotomous and isomoul correspondences. Mediances, no. 1:161-169 159. (BLA 12:11) (Goometry)

POTAPOV, V.G. (Khabarovsk); ZHAROV, V.A. (Yaroslavl'); KOTIY, O.A. (Yaroslavl'); NEKRASOVA, (Ussuriysk); ASEKRITOV, U.M. (Yakutsk) Selected problems and special methods for their solution. Mat. v shkole no.5:87-88 S-0 163.

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	16(1) PRASE I BOOK EXPLOITATION SOV/2508	******
	Matematicheskoye prosveshcheniye; matematika, yeye propodavaniye, prilothaniya i istoriya, vyp. 4 (Mathematical Education; Mathematics, Ital Teaching, Application and Mistory, Mr. 4) Moscow, Costabhizdat, 1950, Mp. 400, confee meters, Mr. 4)	et recent constant co
	Ed.: L.R. Bronshteyn; Editorial Board' of Series: I.R. Bronshteyn, A.I. Markushevich; I.R. Taglos; Tech. Ed.: S.K. Akhlusov.	ritoso ir vienas
	FURPOSE: This book is intended for persons without an extensive mathematical education who are interested in trends in contemporary mathematics. The book may be useful to high school mathematics teachers.	entroductivosia o magaza
	COVERAGE: The book consists of articles, reviews, and selectific and selectific of the state of which are translations from other languages. The state of modern mathematics is considered including applications, history peaching of mathematics is schools, and mathematical describes of mathematics in the miss and all selections describes the states of the selection of the selecti	MANUFACTOR STREET
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		Principles of humanical
	Kotly, O.A. Generalization of the Isbtomic and Isogonal Correspon-	and the second
··········	On One Type of Circular Nomogram	4534F*******
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	Card 4/8	
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AUTHOR:

Kotiy, O.A.

SOV/140-58-6-15/27

TITLE:

Classification of the Cremona-Transformations T, and Algebraic

Line Congruences (Klassifikatsiya kremonovykh preobrazovaniy T

i algebraicheskiye kongruentsii pryamykh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958, Nr 6, pp 156-160 (USSR)

ABSTRACT:

Every Cremona-transformation has one double and four simple fundamental points. By spatial construction the author obtains 12 types of Cremona-transformations which appear by the fact that some or all fundamental points coincide. Five of the given types are already investigated by Skopets [Ref 2]. The author's spatial construction bases on the realization of a Cremona-transformation with the aid of the well-known line congruence of

first order and second class.

There is 1 figure and 3 references, 1 of which is Soviet, 1 English,

and 1 German

ASSOCIATION: Yaroslavskiy pedagogicheskiy institut imeni K.D. Ushinskogo (Yaroslavl' Pedagogical Institute imeni K.D. Ushinskiy)

SUBMITTED: February 20, 1958

Card 1/1

KOTULA, Zbigniew; KOTIUSZKO, Danuta

Studies on the pigments present in neomycin eluates. Med. dosw. mikrobiol. 17 no.2:163-172 '65.

1. Z Instytutu Antybiotykow w Warszawie.

KOTIUSZKO, Danuta; LUBINSKI, Olgierd; RUCZAJ, Zbigniew; HUSZCZYNSKI, Jan;

Preparation of tetracycline (achromycis) by sub-surface fermentation of Streptomyces aureofaciens. Med. dosw. mikrob. 10 no.2:153-164 1958.

1. Z Zakladu Mikrobiologii i Zakladu Technologii Instytutu Antybiotykow w Warszawie.

(TETRACYCLINE, prep. of

sub-surface fermentation of Streptomyces aureofacians (Pol))

(STREPTOMYCES,

aureofacians, sub-surface fermentation in tetracycline prod. (Pol))

EMILIANOWICZ-CZERSKA, Wladyslawa; KOTIUSZKO, Danuta

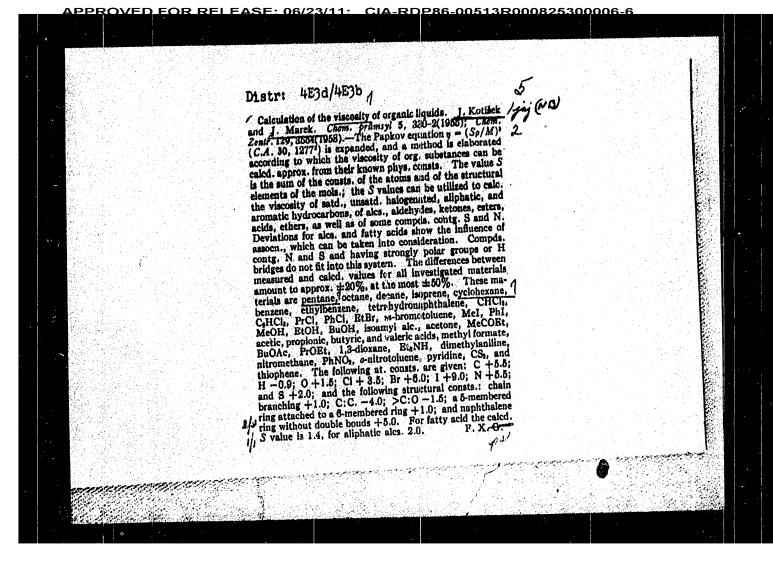
Production of an antibiotic from the neomycin group by the mutant
H-11 of Streptomyces fradiae species obtained by the action of
chlorinated hydantoins. Med.dosw.mikrob. 13 no.2:173-181 '61.

1. Z Instytutu Antybiotykow w Warszawie.

(ANTIBIOTICS chem) (STREPTOMYCES)
(HYDANTOINS pharmacol)

- 1. KOTISHEVSKIY, I. A.
- 2. USSR (600)
- L. Tea
- 7. Introduction of the tea plant into new districts, Sbor. stud. rab. Umansk. sel'khoz. inst, No .1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.



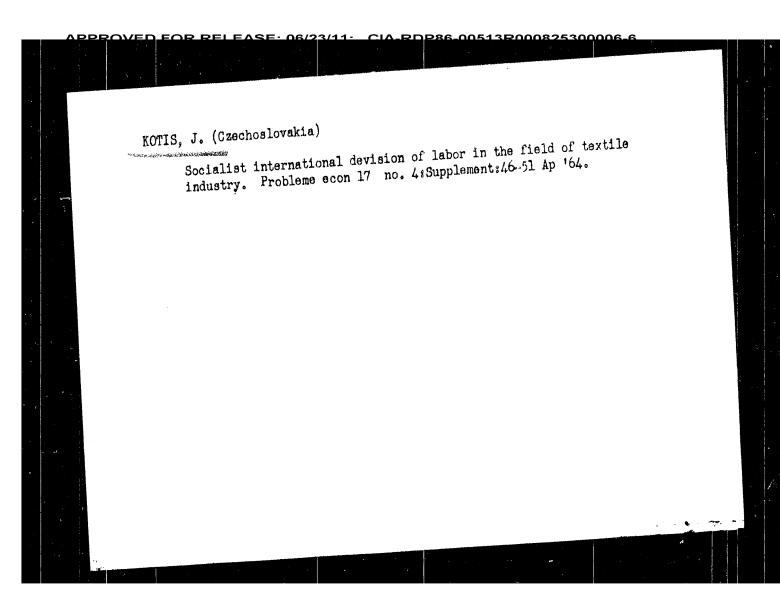
East Furopean Accessions List

KOTISEK, J.; MAREK, J.

Calculation of the viscosity of organic liquids. p.330

CHEMICKY PRUMYCL. (Ministerstvo chemickeho prumyslu) Fraha

Vol. 5, no. 8, Aug. 1955



APPROVED FO	R RELEASE:	06/23/41:	IA-RDP86-	00513R0008253(00006-6	
KOTINSKIY,	G. P.				PA 42/4	2 27
			usen/Electricity (Contd) on 6 kv, and is hooked up to a Sketch shows oil-filled cutout	Rapid development of oil fields necess wide use of electric power. For this efficient distributive points are required bescribes a distributive assembly developes. Performance under actual field at Grozneft, Dagneft and Krasnodarneft very satisfactory. Distributive unit	"Adjustable Distrabutive Devices, Kotinskiy, Energomontazhneft, 2 p	USCH/Electricity Power Plants, Electric Electrical Equipment
	- H2/N9977		Feb 49 35.6-kv substation. switch.	fields necessitates or. For this reason ints are required. assembly developed in actual field conditions Krasnodarneft has been ibutive unit operates h2/4977	ָּשָׁלֶּי, פּרָ. דּי.	

Properties of Chemical Fibers

S/183/60/000/005/007/007 B028/B054

4) The shearing modulus was checked by torsional vibrations with a KM-20 (KM+20) pendulum-disk device. 5) Bending-stress durability was tested with a ATT-15 (DP-15) device at 110 cycles per minute and a stress of 5 kg/mm². A "Sinus" device was used for elementary fibers at a stress of 10 kg/mm². 6) Wear resistance was tested by grinding a thread until breaking on a corundum disk at 160 rpm. 7) Stability to ultraviolet light was determined by 20 hours' irradiation with a NPK-2 (PRK-2) mercury vapor lamp. 8) The elasticity of the fiber mass was tested in a cylinder by volume change under a load of 70 kg for 60 min. Relaxation lasted 30 min; the remaining volume was measured. 9) Moisture content of the fiber by absolute drying in a drying chamber at 105-110°C (chlorine fibers at 70°C). The material had been previously stored for some time at an air moisture of 65% and a temperature of 20+2°C. Data are given in % referred to the total dry substance. 10) The specific heat was determined by an adiabatic calorimeter. 11) A differential thermal analysis yielded data on the temperature range of melts and crystallization. A table comprising 14 pages lists results and X-ray patterns of fibers of viscose, acetate cellulose, caprone, anide, enanth, pelargone, undecane, polyamides,

Card 2/3

S/183/60/000/005/007/007 B028/B054

AUTHORS:

Demina, N. V., Gorbacheva, V. O., Kotina, V. Ye.,

Ukhanova, Z. V.

TITLE

Properties of Chemical Fibers

PERIODICAL:

Khimicheskiye volokna, 1960, No. 5, pp. 40-41

mechanical properties of fibers were tested at an air moisture of 65±1% and an air temperature of 20±2°. The following testing methods are indicated: 1) Control of stability and elongation of threads on pendulumtype tensile-testing machines at a distance of 500 mm between the strainers and an average time until breaking of 15 sec. FOCT 6611-55 (GOST 6611-55). Impact tensile-testing machines were used for staple fibers. 2) The deformation (expansion) modulus was determined from the ratio between load and relative deformation for threads elongated by 3%.

3) Elasticity of threads was tested by a dynamometer. Threads were stretched by 4% and 10% of their original length, left in this state for one minute, and relaxed for one minute; the remaining elongation was measured.

Card 1/3

Water Method for Spinning Nitron Staple Fiber S/183/60/000/004/007/014/XX B004/B075 ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers) Card 4/4

Water Method for Spinning Nitron Staple Fiber S/183/60/000/004/007/014/XX B004/B075

difficulty could be eliminated by using precipitants with high molecular weights and complex steric structures. Since, however, the Soviet Nitron staple fiber production is based on the use of water as precipitant, experiments were made at the authors institute to improve the quality of the fiber by modifying the method. A precipitating bath with 50-60% dimethyl formamide was introduced and the temperature was lowered to 10-15°C. Furthermore, all relaxation processes were eliminated as long as the fiber contained an excessive amount of water. The fibers were washed with water of a maximum temperature of 40°C. After drying and oiling, the fiber was embossed by overheated vapor. Some batches of fibers were produced by this method: metric number 2600-3500, breaking length 26-32 km, elongation 17-28%. The quality of these fibers was much higher than that of fibers treated with hot baths causing relaxation. A knitting yarn No. 32/2 was produced by a doubling winding frame of the type TKM-8 (TKM-8) which was processed in the experimental workshop of the VNIITP (Scientific Research Institute of the Textile Industry) and the Ivanteyevskiy trikotazhnyy tekhnikum (Ivanteyevo Technicum for Tricot Manufacture). It was found that the quality of the products made from the fiber obtained by the modified method was much higher. There are 2 tables and 6 Soviet references.

Card 3/4

Water Method for Spinning Nitron Staple Fiber $\frac{5}{183} \frac{60}{000} \frac{004}{007} \frac{014}{XX}$

precipitant precipitate in % of solution

dichloroethane 87.5 dichloroethane and paraffin oil 61.8 polychlorides 72.2

Water is especially strongly absorbed by the fiber. The following results were obtained by adding dimethyl formamide to water:

precipitant precipitate in % of solution water 95.3 water and 20% dimethyl formamide 77.0 water and 40% dimethyl formamide

amide 70.4

water and 60% dimethyl formamide 64.5 water and 80% dimethyl form-

amide 59.1

The fiber precipitated in water contains only 20% of fiber substance. This

Card 2/4

S/183/60/000/004/007/014/XX B004/B075

AUTHORS:

Kotina, V. Ye., Bunareva, Z. S., Kosova, R. M.

TITLE:

Water Method for Spinning Nitron Staple Fiber

PERIODICAL:

Khimicheskiye volokna, 1960, No. 4, pp. 10-13

TEXT: In separating Nitron fibers diffusion processes take place which are influenced by the molecular weight and the steric factors of the precipitant. Especially water diffusion into the fiber loosens its structure and leads to a high water content in the fiber, thus reducing its quality. Therefore, the authors studied the effect of various precipitants, and the intensity of occlusion of the precipitants in polyacrylonitrile fiber. They precipitated a 15% solution of polyacrylonitrile in dimethyl formamide. The weight of the precipitate was determined and converted to the weight of the initial solution in %:

precipitate in % of solution precipitant 98.4 water 58.6 glycol 24.6

synthetic alcohols

Card 1/4

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6 KOTINA, V.Ye.; KLIMENKOV, V.S.; DEMINA, N.V.; KARATCHIKOVA, A.V. Changes in properties of nitron silk during thermal stress relaxation. Khim.volok. no.1:30-32 '59. (MIRA 12: 1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna. (Textile fibers, Synthetic--Testing)

SOV/76-32-10-4/39 Some Remarks on the Influence of the Deformation Upon the Orientation of High Polymer Substances

place a loosening without orientation,

There are 2 figures, 1 table, and 11 references, 8 of which

are Soviet.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna, Moskva (All-Union Scientific Research Institute of

Synthetic Fibers, Moscow)

SUBMITTED:

March 17, 1956

Card 3/3

-RDP86-00513R000825300006-6

sov/76-32-10-4/39

Some Remarks on the Influence of the Deformation Upon the Orientation of High Polymer Substances

expansion process of the sample can take place by other means than an orientation of the molecules. Some microphotographs of the cross sections of expanded "Capron" and "Soviden" fibers are given. The normally expanded fibers have a uniform cross section, whereas with those expanded after a certain loss of their expansibility two clearly separated zones were observed. The loss of expansibility due to aging takes first place in the inner part of the fiber. The microphotograph of the cross section of a jet of a concentrated solution of polyacrylonitrile in dimethyl formamide is also given. The small air bubbles artificially placed are more dense in certain zones of the cross section, which fact is explained by the influence of mechanical stresses. The swelling of the shell and of the nucleus as a function of the expansion was also investigated microscopically; the results obtained are given in a table. The expansion caused a decrease in the swelling of the nuclear layer and an increase in the swelling of the fiber shell. The decrease of the capability of swelling is explained by a packing of the structure, caused by an orientation of the substance of the nuclear layer. In the fiber shell there takes

Card 2/3

5(4) AUTHORS:

Kotina, V. Ye., Shelepen', I. N.

sov/76-32-10-4/39

TITLE:

Some Remarks on the Influence of the Deformation Upon the Orientation of High Polymer Substances (Nekotoryye zamechaniya otnositel'no vliyaniya deformatsii na oriyentatsiyu vysokopolimernykh veshchestv)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 10, pp 2247-2250 (USSR)

ABSTRACT:

The orientation of the molecules of high polymer substances can take place by a condensation as well as by a loosening of the structure (Ref 1). Mechanical stresses formed in polymer films were investigated by V. A. Kargin, P. V. Kozlov and others (Ref 2). V. A. Kargin and G. L. Slonimskiy (Ref 7) observed that the aging process is activated by mechanical deformations. Preston (Ref 9) assumed that as a consequence of the formation process the shell of the viscose fiber had a tighter structure than the nucleus. This difference in the density of the structure was also observed with the acetate and polyacrylo-nitrile fiber (Ref 10). It must, however, be taken into account that a loosening of the structure of high polymer substances in the

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300006-6 KOTINA, V.Ye.; DEMINA, N.V. Effect of the scale factor on the properties of man-made fibers. (MLRA 10:9) Tekst. prom. 17 no.8:20-23 Ag *57. (Textile fibers, Synthetic--Testing)

KOTINA, V.Ye.; SHELEPEN', I. N.

Internal stresses in man-made fibers. Tekst. prom. 17 no.4:17-19
(MIRA 10:4)

Ap '57.

(Textile fibers, Synthetic--Testing)